

## **STIC Biotechnology Systems Branch**

### **RAW SEQUENCE LISTING**

### **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/519,164  
Source: PCT  
Date Processed by STIC: 01/10/2006

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

**FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:**

**<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)**
- 2. U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):**  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

## Raw Sequence Listing Error Summary

### ERROR DETECTED

### SUGGESTED CORRECTION

SERIAL NUMBER:

10/519,164

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1      Wrapped Nucleics  
    Wrapped Aminos      The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
  
- 2      Invalid Line Length      The rules require that a line **not exceed 72** characters in length. This includes white spaces.
  
- 3      Misaligned Amino  
    Numbering      The numbering under each 5<sup>th</sup> amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.
  
- 4      Non-ASCII      The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. Please **ensure your subsequent submission is saved in ASCII text**.
  
- 5      Variable Length      Sequence(s)      contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
  
- 6      PatentIn 2.0  
    "bug"      A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)     . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
  
- 7      Skipped Sequences  
    (OLD RULES)      Sequence(s)      missing. If intentional, please insert the following lines for **each** skipped sequence:  
     (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
     (i)      SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
     (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
     This sequence is intentionally skipped  
  
     Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.
  
- 8      Skipped Sequences  
    (NEW RULES)      Sequence(s)      missing. If **intentional**, please insert the following lines for **each** skipped sequence.  
     <210> sequence id number  
     <400> sequence id number  
     000
  
- 9      Use of n's or Xaa's  
    (NEW RULES)      Use of n's and/or Xaa's have been detected in the Sequence Listing.  
     Per 1.823 of Sequence Rules, use of <220>-<223> is **MANDATORY** if n's or Xaa's are present.  
     In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.
  
- 10      Invalid <213>  
    Response      Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence
  
- 11      Use of <220>      Sequence(s)      missing the <220> "Feature" and associated numeric identifiers and responses.  
     Use of <220> to <223> is **MANDATORY** if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
     (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
  
- 12      PatentIn 2.0  
    "bug"      Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
  
- 13      Misuse of n/Xaa      "n" can **only** represent a single nucleotide; "Xaa" can **only** represent a single amino acid



PCT

## RAW SEQUENCE LISTING

DATE: 01/10/2006

PATENT APPLICATION: US/10/519,164

TIME: 09:42:41

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\01102006\J519164.raw

W--> 1 1/2 → PLS delete

5 <110> APPLICANT: INGREDIA

7 <120> TITLE OF INVENTION: The use of at least one peptide of alpha (s2) casein having inhibiting

8 activity on the angiotensin I converting enzyme in the preparation of medicines,

9 food products, and food supplements

11 <130> FILE REFERENCE: 1H904870/0004FR0

C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/519,164

C--> 13 <141> CURRENT FILING DATE: 2004-12-23

13 <160> NUMBER OF SEQ ID NOS: 10

15 <170> SOFTWARE: PatentIn Ver. 2.1

## ERRORED SEQUENCES

17 <210> SEQ ID NO: 1

18 <211> LENGTH: 3

19 <212> TYPE: PRT

20 <213> ORGANISM: alpha (s2), casein

22 <400> SEQUENCE: 1

E--> 23 Thy Val Try

24 1

37 <210> SEQ ID NO: 3

38 <211> LENGTH: 6

39 <212> TYPE: PRT

40 <213> ORGANISM: alpha (s2) casein

42 <400> SEQUENCE: 3

E--> 43 Phe Ala Leu Pro Gln Try

44 1 5

46 <210> SEQ ID NO: 4

47 <211> LENGTH: 7

48 <212> TYPE: PRT

49 <213> ORGANISM: alpha (s2) casein

51 <400> SEQUENCE: 4

E--> 52 Phe Pro Gln Try Leu Gln Try

53 1 5

54 2/2

56 <210> SEQ ID NO: 5

57 <211> LENGTH: 8

58 <212> TYPE: PRT

59 <213> ORGANISM: alpha (s2) casein

61 <400> SEQUENCE: 5

E--> 62 Phe Ala Leu Pro Gln Try Leu Lys

63 1 5

*Handwritten notes:*

- Global error
- Invalid L2137 Response. See Item # 10 in summary sheet.
- Does Not Comply Corrected Diskette Needed (pg-1-3)
- Invalid Amino Acid designators. If Thy represents thyroxine, use 'X99' and explain in L2207-L2237 Section.
- Same error
- Same error delete
- Same error as above

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DATE: 01/10/2006

TIME: 09:42:41

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\01102006\J519164.raw

95 <210> SEQ ID NO: 9  
96 <211> LENGTH: 9  
97 <212> TYPE: PRT  
98 <213> ORGANISM: alpha (s2) casein  
100 <400> SEQUENCE: 9  
E--> 101 Ala Leu Asn Glu Ile Asn Gln Phe Try  
102 1 5  
104 <210> SEQ ID NO: 10  
105 <211> LENGTH: 2  
106 <212> TYPE: PRT  
107 <213> ORGANISM: alpha (s2) casein  
109 <400> SEQUENCE: 10  
E--> 110 Try Leu  
111 1  
114 1/2  
116 2/2

*Handwritten annotations:*

- A circle around "Try" in line 101, with an arrow pointing to "same error" and another arrow pointing to "same error as page-1".
- A circle around "alpha (s2) casein" in line 107, with an arrow pointing to "same error as page-1".
- A circle around "Try Leu" in line 110, with an arrow pointing to "ok".
- A circle around "1/2" in line 114, with an arrow pointing to "Same error".
- A circle around "2/2" in line 116, with an arrow pointing to "delete".

RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 01/10/2006

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TIME: 09:42:42

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\01102006\J519164.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 8

## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/519,164

DATE: 01/10/2006

TIME: 09:42:42

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\01102006\J519164.raw

L:1 M:259 W: Allowed number of lines exceeded, (1) GENERAL INFORMATION:  
L:13 M:270 C: Current Application Number differs, Replaced Current Application No  
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:23 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:2  
L:43 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:1  
L:52 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:2  
L:62 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:1  
L:101 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:2  
L:110 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:1